

AMENDMENT

Please amend the application without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents, as follows.

In the Claims

- 1-4. (Cancelled)
5. (Allowed) An isolated retrotransposon consisting of SEQ ID NO:3.
- 6-9. (Cancelled) The retrotransposon according to claim 5 which is isolated from fungi or yeast.
10. (Previously presented) The DNA transfer construct according to claim 17 comprising:
 - a) a transposable element for introducing a desired DNA sequence into the genome of a cell, having the sequence identified in SEQ ID NO:3 comprising an internal domain for receiving a nucleotide sequence encoding a desired protein, said internal domain comprising the gag and pol ORF in the same phase and flanked by two terminal repeat regions, said transposable element being capable of integrating into the genome of a cell in the presence of an integration factor; and
 - b) a nucleotide sequence encoding an integration factor.
11. (Previously presented) The DNA transfer construct according to claim 10, wherein the integration factor is an integrase protein encoded by a nucleotide sequence within the pol ORF of the DNA transfer construct.
12. (Previously presented) An isolated and purified retrotransposon comprising a nucleotide sequence which has at least 95% sequence similarity with a nucleotide sequence selected from the group consisting of:
 - (a) SEQ ID NO:3; and
 - (b) the LTR and POL region of SEQ ID NO:3.
13. (Currently amended) A cell transformed with an isolated retrotransposon comprising a nucleotide sequence which has at least 95% sequence similarity with SEQ ID NO:3, wherein the retrotransposon TCa2, wherein TCa2 is integrated into the genome of the cell.
14. (Previously presented) An expression vector comprising the retrotransposon of claim 12.
15. (Cancelled)

16. (Cancelled)
17. (Previously presented) A DNA transfer construct comprising the retrotransposon of claim 12.
18. (Cancelled)
19. (Currently amended) An isolated nucleic acid fragment selected from the group consisting of:
 - (a) a nucleic acid sequence comprising two terminal repeats of SEQ ID NO:3 the sequence of pCal, as described in GenBank accession number AF007776, and a nucleic acid molecule of interest, wherein the nucleic acid molecule of interest is positioned between the two terminal repeats; and
 - (b) a nucleic acid sequence consisting of the LTR and POL region of SEQ ID NO:3.
20. (Previously presented) The nucleic acid fragment according to claim 19 in which the nucleic acid sequence comprises a functional POL gene.
21. (Previously presented) The nucleic acid fragment according to claim 19 in which the nucleic acid sequence comprises a series of genes in the order gag (group antigen), pol (polyprotein) where the pol sequence comprises an aspartic protease, an integrase and a reverse transcriptase/RNaseH.
- 22-34. (Cancelled)
35. (Previously presented) The retrotransposon of claim 12, wherein the retrotransposon comprises a nucleotide sequence having four tandem repeats of the sequence GAAAAA.
36. (Previously presented) The DNA transfer vector of claim 17, wherein the transposable element comprises a nucleotide sequence having four tandem repeats of the sequence GAAAAA.
- 37-42. (Cancelled)
43. (Previously presented) The retrotransposon of claim 12, wherein the nucleotide sequence of (b) has at least 97% similarity with the LTR and POL region of SEQ ID NO:3.
- 44-50. (Cancelled)
51. (Previously presented) The DNA transfer construct of claim 17, further comprising a dominant selectable marker.